

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	22884	yttri\$4	USPA T; US-P GPUB	2003/04/0 4 16:18			0
2	BRS	L2	11122	1 same oxide	USPA T; US-P GPUB	2003/04/0 4 16:19			0
3	BRS	L3	75	radioactiv\$ same 2	USPA T; US-P GPUB	2003/04/0 4 17:24			0
4	BRS	L4	56699	microsphere same crystal or glass	USPA T; US-P GPUB	2003/04/0 4 17:25			0
5	BRS	L5	79025	crystal or glass	USPA T; US-P GPUB	2003/04/0 4 17:28			0
6	BRS	L6	17298	microsphere	USPA T; US-P GPUB	2003/04/0 4 17:25			0
7	BRS	L7	4629	6 same 5	USPA T; US-P GPUB	2003/04/0 4 17:25			0
8	BRS	L8	89	7 and 2	USPA T; US-P GPUB	2003/04/0 4 17:26			0
9	BRS	L9	151	8 or 3	USPA T; US-P GPUB	2003/04/0 4 17:26			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BRS	L10	81	9 and radioactiv\$	USPA T; US-P GPUB	2003/04/04 17:26			0
11	BRS	L11	34601 2	crystal	USPA T; US-P GPUB	2003/04/04 17:28			0
12	BRS	L12	26	10 and 11	USPA T; US-P GPUB	2003/04/04 17:59			0
13	IS&R	L13	2	((("5885547") or ("6258338"))).PN.	USPA T; US-P GPUB	2003/04/04 18:00			0
14	BRS	L14	2	1 and 13	USPA T; US-P GPUB	2003/04/04 18:23			0
15	BRS	L15	4633	yas	USPA T; US-P GPUB	2003/04/04 18:23			0
16	BRS	L16	3	yas-4	USPA T; US-P GPUB	2003/04/04 18:25			0
17	BRS	L17	3	coat\$4 and 16	USPA T; US-P GPUB	2003/04/04 18:31			0
18	BRS	L18	8	ypo4	USPA T; US-P GPUB	2003/04/04 18:32			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
19	BRS	L19	673	yttri\$4 adj5 phosph\$4	USPA T; US-P GPUB	2003/04/04 18:32			0
20	BRS	L20	25	19 and 6	USPA T; US-P GPUB	2003/04/04 18:50			0
21	BRS	L21	7768	silica adj5 coat\$	USPA T; US-P GPUB	2003/04/04 18:50		Truncation overflow.	1
22	BRS	L23	0	22 and 3	USPA T; US-P GPUB	2003/04/04 18:51			0
23	BRS	L24	11	22 and radioactiv\$	USPA T; US-P GPUB	2003/04/04 18:51			0
24	BRS	L22	119	21 and 7	USPA T; US-P GPUB	2003/04/04 18:53			0
25	BRS	L25	17	1 and 22	USPA T; US-P GPUB	2003/04/04 18:53			0
26	BRS	L26	119	21 and 7	USPA T; US-P GPUB	2003/04/04 19:04			0
27	IS&R	L27	785	((427/2.14) or (427/5) or (427/452) or (424/1.29) or (424/1.33-1.37)).CCLS	USPA T; US-P GPUB	2003/04/04 19:05			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
28	BRS	L28	28	7 and 27	USPA T; US-P GPUB	2003/04/04 19:06			0
29	BRS	L29	0	28 and 21	USPA T; US-P GPUB	2003/04/04 19:06			0
30	BRS	L30	20	28 and sillic\$4	USPA T; US-P GPUB	2003/04/04 19:06			0

L5 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
 RN 11130-29-3 REGISTRY
 CN **Yttrium oxide (9CI)** (CA INDEX NAME)
 PR 1314-36-9
 MF 0 . Y
 CI COM, TIS
 LC STN Files: ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
 CEN, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, PIRA,
 PROMT, RTECS*, TOXCENTER, TULSA, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Component	Ratio	Component Registry Number
O	x	17778-80-2
Y	x	7440-65-5

267 REFERENCES IN FILE CA (1962 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 267 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L5 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
 RN 1314-36-9 REGISTRY
 CN Yttrium oxide (Y2O3) (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Diyttrium trioxide
 CN Nanotek Y2O3
 CN Y-F
 CN YO 3-245
 CN Yttria
 CN **Yttrium oxide**
 CN Yttrium oxide (YO1.5)
 CN Yttrium sesquioxide
 CN Yttrium trioxide
 CN Yttrium(3+) oxide
 CN Yttrium(III) oxide
 AR 11130-29-3
 MF O3 Y2
 CI COM, MAN
 LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*,
 IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT,
 RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 32161 REFERENCES IN FILE CA (1962 TO DATE)
 721 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 32182 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 55 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s yttrium phosphate/cn
 L6 0 YTRIUM PHOSPHATE/CN

=> s yttrium phosphate
 0 YTRIUM
 173160 PHOSPHATE
 L7 0 YTRIUM PHOSPHATE
 (YTRIUM(W) PHOSPHATE)

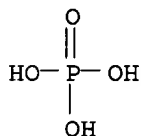
=> s yttrium phosphate
 1 YTRIUM
 173160 PHOSPHATE
 L8 0 YTRIUM PHOSPHATE
 (YTRIUM(W) PHOSPHATE)

=> s yttrium phosphate/cn
 L9 0 YTRIUM PHOSPHATE/CN

=> s yttrium phosphate/cn
 L10 2 YTTRIUM PHOSPHATE/CN

=> d 1-2

L10 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
 RN 34895-03-9 REGISTRY
 CN Phosphoric acid, yttrium(3+) salt (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Yttrium phosphate**
 PR 13990-54-0
 MF H3 O4 P . x Y
 LC STN Files: CA, CAPLUS, GMELIN*, IFICDB, IFIPAT, IFIUDB, USPATFULL
 (*File contains numerically searchable property data)
 CRN (7664-38-2)

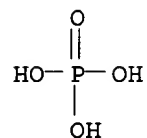


●x Y(III)

6 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
 RN 13990-54-0 REGISTRY
 CN Phosphoric acid, yttrium(3+) salt (1:1) (8CI, 9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN **Yttrium phosphate (6CI, 7CI)**
 OTHER NAMES:
 CN Yttrium orthophosphate
 CN Yttrium phosphate (YPO4)
 AR 31417-54-6, 34895-03-9
 MF H3 O4 P . Y
 LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*,
 IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (7664-38-2)



● Y(III)

516 REFERENCES IN FILE CA (1962 TO DATE)
33 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
516 REFERENCES IN FILE CAPLUS (1962 TO DATE)
10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

MF Ni . O3 Y2
CI AYS
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Ni	99	7440-02-0
Y2O3	1.4	1314-36-9

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 1314-36-9 REGISTRY
CN Yttrium oxide (Y2O3) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:

CN Diyttrium trioxide
CN Nanotek Y2O3
CN Y-F
CN YO 3-245
CN Yttria
CN Yttrium oxide
CN Yttrium oxide (YO1.5)
CN Yttrium sesquioxide
CN Yttrium trioxide
CN Yttrium(3+) oxide
CN Yttrium(III) oxide

AR 11130-29-3

MF O3 Y2

CI COM, MAN

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*,
IFICDB, IFIPAT, IFIUDb, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT,
RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

32161 REFERENCES IN FILE CA (1962 TO DATE)

721 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

32182 REFERENCES IN FILE CAPLUS (1962 TO DATE)

55 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 16 YTTRIA

=> d 1-16

L2 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 308076-80-4 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).

CN Synthetic fibers, yttrium-stabilized zirconium oxide (CA INDEX NAME)

OTHER NAMES:

CN Y 7Z

CN **Yttria-stabilized zirconia fibers**

CN Yttrium-stabilized zirconia fibers

CN Yttrium-stabilized zirconium oxide fibers

CN Zircar ZYW 15

CN Zirconia fibers, yttrium-stabilized

CN Zirconium oxide fibers, yttrium-stabilized

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 199920-27-9 REGISTRY

CN Iron alloy, base, Fe 82,Al 16,Cr 2.2,Y2O3 0.5 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Aluminum 28, chromium 2, iron 69.9, yttria 0.1 (atomic)**

MF Al . Cr . Fe . O3 Y2

CI AYS

SR CA

LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	82	7439-89-6
Al	16	7429-90-5
Cr	2.2	7440-47-3
Y2O3	0.5	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 149953-96-8 REGISTRY

CN Iron alloy, base, Fe 92,Y2O3 7.6 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Iron 98, yttria 2 (atomic)**

MF Fe . O3 Y2

CI AYS

SR CA

LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	92	7439-89-6

Y203

7.6

1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 148733-26-0 REGISTRY
CN Iron alloy, base, Fe 93-99,Y203 0.6-6.6 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Iron 90-99, yttria 1-10 (volume)**
MF Fe . O3 Y2
CI AYS
SR CA
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	93 - 99	7439-89-6
Y203	0.6 - 6.6	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 144903-45-7 REGISTRY
CN Nickel alloy, base, Ni 98-99,ZrO2 0-1.6,Y203 0-1.4 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Nickel 97.5, yttria 0-2.5, zirconia 0-2.5 (volume)**
MF Ni . O3 Y2 . O2 Zr
CI AYS
SR CA
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Ni	98 - 99	7440-02-0
ZrO2	0 - 1.6	1314-23-4
Y203	0 - 1.4	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 141711-79-7 REGISTRY
CN Tungsten alloy, base, W 94-100,Y203 0-6.1 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Tungsten 80-100, yttria 0-20 (volume)**
MF O3 Y2 . W
CI AYS
SR CA
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
W	94 - 100	7440-33-7
Y203	0 - 6.1	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 130295-14-6 REGISTRY
CN Aluminum alloy, base, Al 92-98,Y2O3 1.6-7.8 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Aluminum 99-99.8, yttria 0.2-1 (atomic)
MF Al . O3 Y2
CI AYS
SR CA
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Al	92 - 98	7429-90-5
Y2O3	1.6 - 7.8	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 130295-13-5 REGISTRY
CN Aluminum alloy, base, Al 69-100,Y2O3 0-31 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Aluminum 95-100, yttria 0-5 (atomic)
MF Al . O3 Y2
CI AYS
SR CA
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Al	69 - 100	7429-90-5
Y2O3	0 - 31	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN 130141-75-2 REGISTRY
CN Niobium alloy, base, Nb 99,Y2O3 1.2 (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Niobium 98, yttria 2 (volume)
MF Nb . O3 Y2
CI AYS
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Component	Component Percent	Component Registry Number
Nb	99	7440-03-1
Y2O3	1.2	1314-36-9

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 125021-64-9 REGISTRY
 CN Copper alloy, base, Cu 98,Y2O3 1.6 (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Copper 97, yttria 3 (volume)**
 MF Cu . O3 Y2
 CI AYS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Component	Component Percent	Component Registry Number
Cu	98	7440-50-8
Y2O3	1.6	1314-36-9

2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 119584-23-5 REGISTRY
 CN Molybdenum alloy, base, Mo 99,Y2O3 1 (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Molybdenum 98, yttria 2 (volume)**
 MF Mo . O3 Y2
 CI AYS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Component	Component Percent	Component Registry Number
Mo	99	7439-98-7
Y2O3	1	1314-36-9

4 REFERENCES IN FILE CA (1962 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 119582-66-0 REGISTRY
 CN Hafnium oxide (HfO2), alloy, HfO2 53,W 29,Mo 15,Y2O3 3.2 (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Hafnia 60, molybdenum 16.5, tungsten 16.5, yttria 7 (volume)**
 MF Hf O2 . Mo . O3 Y2 . W
 CI AYS
 SR CA
 LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
HfO2	53	12055-23-1
W	29	7440-33-7
Mo	15	7439-98-7
Y2O3	3.2	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 119563-58-5 REGISTRY
 CN Tungsten alloy, base, W 51,HfO2 46,Y2O3 2.8 (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Hafnia 60, tungsten 33, yttria 7 (volume)**
 MF Hf O2 . O3 Y2 . W
 CI AYS
 SR CA
 LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
W	51	7440-33-7
HfO2	46	12055-23-1
Y2O3	2.8	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 114168-16-0 REGISTRY
 CN Yttrium zirconium oxide (Y0.16Zr0.92O2.08) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **8 mol%-yttria-stabilized zirconia**
 CN 8YS
 CN Denzir
 CN HSY 8
 CN HSY 8.0
 CN KDP 1
 CN NZP-C 8Y
 CN OZC 8YC
 CN TZ 8Y
 CN United-FYT11
 CN **zirconia-8 mol% yttria**
 CN Zirconium yttrium oxide [(ZrO2)92(Y2O3)8]
 DR 151595-22-1, 143929-09-3, 220855-16-3
 MF O . Y . Zr
 AF O2.08 Y0.16 Zr0.92
 CI COM, TIS
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Component	Ratio	Component Registry Number
O	2.08	17778-80-2
Zr	0.92	7440-67-7
Y	0.16	7440-65-5

1271 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1273 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2003 ACS
 RN 60771-19-9 REGISTRY
 CN Nickel alloy, base, Ni 99,Y2O3 1.4 (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Nickel 97.5, yttria 2.5 (volume)**
 CN Nickel 97.5, yttrium oxide 2.5 (volume)